

Form PTO-1449

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

(use several sheets if necessary)

DOCKET NUMBER:

**PF 53620**

APPLICATION NUMBER:

**10/516,922**

APPLICANT:

**HESSE et al.**

CONFIRMATION NUMBER:

**7432**

FILING DATE:

**December 07, 2004**

GROUP ART UNIT:

**1621****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
KG	A	US 3,268,588	08/1966	HORLENKO et al.	260	585
	B	US 4,001,282	01/1977	MILLER	260	343.6
	C	US 4,048,196	09/1977	BROECKER et al.	260	346.11
	D	US 4,268,695	05/1981	LANGE et al.	568	864
	E	US 4,301,077	11/1981	PESA et al.	260	346.11
	F	US 4,652,685	03/1987	CAWSE et al.	568	864
	G	US 4,797,382	01/1989	De THOMAS et al.	502	245
	H	US 4,885,411	12/1989	De THOMAS et al.	568	864
	I	US 4,940,805	07/1990	FISCHER et al.	549	326
	J	US 4,965,378	10/1990	BUDGE et al.	549	508
	K	US 5,030,773	07/1991	JOHNSON et al.	568	864
	L	US 5,072,009	12/1991	BUDGE et al.	549	508
	M	US 5,122,495	06/1992	TAYLOR et al.	502	183
	N	US 5,149,836	09/1992	De THOMAS et al.	549	325
	O	US 5,196,602	03/1993	BUDGE et al.	568	864
	P	US 5,395,990	03/1995	SCARLETT	568	864
	Q	US 5,406,004	04/1995	EASTLAND et al.	568	831
	R	US 5,536,849	07/1996	BERGFELD et al.	549	325
✓	S	US 6,008,375	12/1999	BERGFELD et al.	548	554
KG	T	US 6,297,389	10/2001	CASTIGLIONI et al.	549	295

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
					YES	NO
KG	AA	WO 91/16132	10/1991	WIPO	TAYLOR et al.	n / a
	AB	WO 95/22539	08/1995	WIPO	LANCIA et al.	n / a
	AC	WO 97/24346	07/1997	WIPO	BERGFELD et al.	S
	AD	WO 97/43234	11/1997	WIPO	TUCK et al.	n / a
	AE	WO 99/35113	07/1999	WIPO	BERTOLA	n / a
	AF	WO 99/35114	07/1999	WIPO	BERTOLA	n / a
✓	AG	WO 99/35136	07/1999	WIPO	BERTOLA	n / a
KG	AH	WO 99/35139	07/1999	WIPO	CASTIGLIONI et al.	n / a

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						YES	NO
KG	AI	WO 99/38856	08/1999	WIPO	CASTIGLIONI et al.	n / a	
	AJ	WO 99/52845	10/1999	WIPO	BERTOLA et al.	n / a	
	AK	EP 0 318 129	05/1989	Europe	De THOMAS et al.	n / a	
	AL	EP 0 322 140	06/1989	Europe	ATTIG et al.	n / a	
	AM	EP 0 373 946	06/1990	Europe	SUZUKI et al.	n / a	
	AN	EP 0 373 947	06/1990	Europe	SUZUKI et al.	n / a	
	AO	EP 0 382 050	08/1990	Europe	WEYER et al.	BA	
	AP	EP 0 404 408	12/1990	Europe	BUDGE	n / a	
	AQ	EP 0 431 923	06/1991	Europe	SUZUKI et al.	n / a	
	AR	EP 0 638 565	02/1995	Europe	BERGFELD et al.	R	
	AS	CN 1 047 328	11/1990	China		BB	
	AT	CN 1 113 831	12/1995	China		BC	
	AU	CN 1 116 615	02/1996	China		BD	
	AV	CN 1 137 944	12/1996	China		BE	
	AW	CN 1 138 018	12/1996	China		BF	
	AX	CN 1 182 639	05/1998	China		BG	
	AY	CN 1 182 732	05/1998	China		BH	
	AZ	DE 1 277 233	09/1968	Germany	HOOD et al.	A	
	AAA	DE 2 043 349	03/1972	Germany	MURATA et al.	BI	
	AAB	DE 2 231 986	01/1974	Germany	KANETAKA et al.	AAJ	
	AAC	DE 2 404 493	08/1974	Germany	MILLER	B	
	AAD	DE 24 55 617	05/1976	Germany	BROECKER et al.	C	
	AAE	DE 25 01 499	07/1976	Germany	FREUDENBERGER et al.	AAK	
	AAF	DE 28 45 905	04/1980	Germany	LANGE et al.	D	
	AAG	DE 37 26 510	02/1989	Germany	EGGERSDORFER et al.	BJ	
	AAH	GB 1,168,220	10/1969	Great Britain		n / a	
	AAI	GB 1,230,276	04/1971	Great Britain		n / a	
	AAJ	GB 1,344,557	01/1974	Great Britain		n / a	
✓	AAK	GB 1,512,751	06/1978	Great Britain		n / a	
KG	AAL	JP 49/087,610	08/1974	Japan		BK	

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					YES	NO
KG	AAM	JP 01/121,228	05/1989	Japan	BL	
	AAN	JP 02/025,434	01/1990	Japan	BM	
	AAO	JP 02/233,630	09/1990	Japan	BN	
	AAP	JP 02/233,631	09/1990	Japan	BO	
	AAQ	JP 02/233,632	09/1990	Japan	BP	
	AAR	JP 05/036,669	02/1993	Japan	BQ	
	AAS	JP 06/034,567	02/1994	Japan	X	
	AAT	JP 07/240,770	09/1995	Japan	X	
KG	AAU	JP 09/024,906	01/1997	Japan	X	

**OTHER DOCUMENTS**

EXAMINER INITIAL	AUTHOR / Number	DOCUMENT
BA	EP 0 382 050	English language Derwent abstract of document AO
BB	CN 1 047 328	English language Derwent abstract of document AS
BC	CN 1 113 831	English language Derwent abstract of document AT
BD	CN 1 116 615	English language Derwent abstract of document AU
BE	CN 1 137 944	English language Derwent abstract of document AV
BF	CN 1 138 018	English language Derwent abstract of document AW
BG	CN 1 182 639	English language Derwent abstract of document AX
BH	CN 1 182 732	English language Derwent abstract of document AY
BI	DE 2 043 349	CA 126378s - English language abstract of document AAA
BJ	DE 3 726 510	esp@cenet English language abstract of document AAG
BK	JP 49/087,610	English language Derwent abstract of document AAL
BL	JP 01/121,228	English language Derwent abstract of document AAM
BM	JP 02/025,434	English language Derwent abstract of document AAN
BN	JP 02/233,630	English language Derwent abstract of document AAO
BO	JP 02/233,631	English language Derwent abstract of document AAP
BP	JP 02/233,632	English language Derwent abstract of document AAQ
BQ	JP 05/036,669	English language Derwent abstract of document AAR
BR	DASHUNIN et al.	Z. Org. Chim. 1(6), 996-1000 (1996) - English language translation "Substituted Lactones and their Transformations - Preparation of 1- and 2-alkyl-1,4-buta-dienes from $\alpha$ - and $\gamma$ -substituted Butyrolactones"

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